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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/569,848

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Shigemasa Takagi

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EXAMINER

LIU, HENRY Y

ART UNIT

PAPER NUMBER

3654

MAIL DATE

DELIVERY MODE

03/02/2010

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/569,848	Applicant(s) TAKAGI ET AL.	
	Examiner HENRY LIU	Art Unit 3654	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 5/29/2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 13 and 15-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 13, 15-19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

A new rejection to Claim 13 is set forth below.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim **13** is rejected under 35 U.S.C. 102(b) as being anticipated by SAKAKIBARA (4,655,735).

Regarding Claim 13, SAKAKIBARA teaches "a push block (Bb) (Fig. 26) for use with a metallic belt (1) wound between annular V-grooves (6) of a drive pulley and a driven pulley (Col. 3 lines 33-69)." A V-belt continuously variable transmission inherently has a driven pulley and driving pulley.

SAKAKIBARA teaches a plurality of the push blocks (Bb) are for being superimposed with one another along the longitudinal direction of the metallic belt (1), the push block (Bb) comprising: a side contact surface (21a) (21b) opposing inner side surfaces of the annular V-grooves of both pulleys (6); and a front half of the contact surface forms an obtuse angle with a front surface of the push block (Bb), and a rear half of the contact surface forms an obtuse angle with a rear surface of the push block, and a ridge line comprising a line formed by an intersection of said front half and said rear half, said ridge line functioning as an oil film breaking portion for breaking an oil

Art Unit: 3654

film, which forms on the inner side surfaces of the annular V-grooves of the pulleys (Fig. 26), and extending along the entire length of the contact surface at a middle part of the contact surface in the widthwise direction.

SAKAKIBARA does not teach “a push block is formed by bending a single wire material and then performing pressing.” Even though the product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. Bending or another method would result in the same structure of the product MPEP 2113.

Claims **15-19** are rejected under 35 U.S.C. 102(b) as being anticipated by **Kato (JPO 10213185)**.

As per claim 15, Kato teaches a push block for use with a metallic belt wound between annular V-grooves of a drive pulley and a driven pulley (see Fig. 5), wherein a plurality of the push blocks are for being superimposed with one another along the longitudinal direction of the metallic belt (see Fig. 7), the push block comprising: a side contact surface opposing inner side surfaces of the annular V-grooves of both pulleys (see Figs. 5 and 6); and

a front portion of the contact surface forming an obtuse angle with a front surface of the push block, (see Fig. 7), and a groove (2e) extending along the entire length of

Art Unit: 3654

the contact surface at the middle of the contact surface, wherein an inner wall of the groove and the contact surface defines the ridge line that functions as the oil film breaking portion, which forms on the inner side surfaces of the annular V-grooves of the pulleys (see Fig. 7), wherein the push block is formed by bending a single wire material and then performing pressing (even though the product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. Bending or another method would result in the same structure of the product).

As per claims 16 and 17, Kato teaches the groove (2e) has a rectangular cross section (see Fig. 2) and a triangular cross section (see Fig. 1b).

As per claim 18, Kato teaches the side contact surface of the body of the push block in frictional contact with the inner side surfaces of the annular V-grooves of both of the pulleys and the side contact surface of the pillar continuous with the body side contact surface (see Figs. 5 and 6) includes a plurality of grooves (2e) extending parallel to the travel direction of the push block, with the width of the groove at the front side in the travel direction being wider than the width at the rear side in the travel direction (see Figs. 1b and 7).

As per claim 19, Kato teaches a metallic belt comprising a metal band and the push block (See Figs. 1a and 6).

Response to Arguments

Applicant's arguments with respect to claim 13 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to HENRY LIU whose telephone number is (571) 270-7018. The examiner can normally be reached on Mon-Thurs 7:30am - 5:00pm ET.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, JOHN Q. NGUYEN can be reached on (571) 272-6952. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 3654

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/John Q. Nguyen/
Supervisory Patent Examiner, Art Unit 3654

/HENRY LIU/
Examiner, Art Unit 3654